

## EAST Search History

| Ref # | Hits  | Search Query   | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|-------|--|---|------------------|---------|------------------|
| L2    | 1     | ((micro adj mirror adj array or MMA) and reflective adj device and(encod\$4 or encode) and optically adj variable and angle and secondary adj pattern and primary and registration and latent adj image\$1).CLM. | US-PGPUB                                    | OR               | ON      | 2009/01/16 16:11 |
| L3    | 75568 | "359"/\$.ccls.   | USPAT                                       | OR               | ON      | 2009/01/16 16:17 |
| L4    | 403   | L3 and(micro adj mirror adj array or MMA)  | USPAT                                       | OR               | ON      | 2009/01/16 16:17 |
| L5    | 12    | L4 and reflective adj device   | USPAT                                       | OR               | ON      | 2009/01/16 16:18 |
| L6    | 0     | L5 and(generates or obtaining) and optically adj variable  | USPAT                                       | OR               | ON      | 2009/01/16 16:20 |
| L7    | 0     | L5 and(encod\$4 or encode) and latent adj image\$1   | USPAT                                       | OR               | ON      | 2009/01/16 16:21 |
| L8    | 10    | L5 and(@ad< "20030707" or @rlad< "20030707" or @prad< "20030707" or @ptad< "20030707")   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2009/01/16 16:21 |
| L9    | 7     | L5 and @ad< "20030707"   | USPAT                                       | OR               | ON      | 2009/01/16 16:22 |
| S1    | 18027 | (micro adj mirror adj array or MMA)  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2009/01/11 12:37 |
| S2    | 40    | S1 and reflective adj device   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2009/01/11 12:37 |
| S3    | 2     | S2 and(generates or obtaining) same optically adj variable   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2009/01/11 12:38 |
| S4    | 3     | S2 and (encod\$4 or encode) same latent adj image\$1   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2009/01/11 12:42 |

|     |      |  |   |    |     |                     |
|-----|------|--|---|----|-----|---------------------|
| S5  | 84   | ((("20070110317") or ("20070109643") or ("5298747") or ("6219074") or ("4346401") or ("5525192") or ("4386145") or ("5381187") or ("5978105") or ("5991083") or ("6172363") or ("6329826") or ("6369949") or ("6559663") or ("6950608") or ("6995370") or ("7026830") or ("7081928") or ("7375329") or ("7417444") or ("20020027440") or ("20020171778") or ("20030169060") or ("20050135798") or ("20050145791") or ("20050275709") or ("20060043982") or ("20060108527") or ("20070246547") or ("20080164499") or ("20080302964") or ("6268893") or ("6369919") or ("6608911") or ("6782115") or ("6882737") or ("20020080992") or ("20020080994") or ("20030128862") or ("20030210805") or ("20050063027") or ("20060039581") or ("20070128748") or ("20070258621") or ("20080218817") or ("5986381") or ("6225020") or ("6225020") or ("4370937") or ("4970928") or ("").pn.").PN. | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/01/11<br>12:43 |
| S6  | 3    | S5 and(micro adj mirror adj array or MMA)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/01/11<br>12:44 |
| S7  | 2    | S6 and reflective adj device   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/01/11<br>12:44 |
| S8  | 2    | S7 and (encod\$4 or encode) same latent adj image\$1   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/01/11<br>12:44 |
| S9  | 143  | ((TIMOTHY) near2 (DAVIS)).INV.   | US-PGPUB;<br>USPAT                                      | OR | ON  | 2009/01/11<br>12:51 |
| S10 | 2023 | ((ROBERT) near2 (LEE)).INV.  | US-PGPUB;<br>USPAT                                      | OR | ON  | 2009/01/11<br>12:52 |

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|-----|----|--|---|----|----|------------------|
| S11 | 22 | ((LAWRENCE) near2 (MCCARTHY)).INV.                         | US_PGPUB; USPAT                             | OR | ON | 2009/01/11 12:52 |
| S12 | 22 | ((LAWRENCE) near2 (MCCARTHY)).INV.                         | US_PGPUB; USPAT                             | OR | ON | 2009/01/11 12:53 |
| S13 | 7  | ((GERHARD) near2 (SWIEGERS)).INV.                          | US_PGPUB; USPAT                             | OR | ON | 2009/01/11 12:53 |
| S14 | 9  | ((GERARD) near2 (WILSON)).INV.                             | US_PGPUB; USPAT                             | OR | ON | 2009/01/11 12:54 |
| S15 | 1  | S9 and(micro adj mirror adj array or MMA)                  | US_PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/01/11 12:55 |
| S16 | 1  | S15 and reflective adj device                              | US_PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/01/11 12:55 |
| S17 | 1  | S16 and(generates or obtaining same optically adj variable | US_PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/01/11 12:55 |
| S18 | 1  | S17 and (encod\$4 or encode) same latent adj image\$1      | US_PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/01/11 12:55 |
| S19 | 6  | S10 and(micro adj mirror adj array or MMA)                 | US_PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/01/11 12:56 |
| S20 | 1  | S19 and reflective adj device                              | US_PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/01/11 12:56 |
| S21 | 1  | S20 and(generates or obtaining same optically adj variable | US_PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/01/11 12:57 |
| S22 | 1  | S21 and (encod\$4 or encode) same latent adj image\$1      | US_PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/01/11 12:57 |
| S23 | 1  | S11 and(micro adj mirror adj array or MMA)                 | US_PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/01/11 12:57 |

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|-----|---|--|---|----|----|---------------------|
| S24 | 1 | S23 and reflective adj device                                  | US_PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/11<br>12:57 |
| S25 | 1 | S24 and(generates or obtaining)<br>same optically adj variable | US_PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/11<br>12:57 |
| S26 | 1 | S25 and (encod\$4 or encode)<br>same latent adj image\$1       | US_PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/11<br>12:58 |
| S27 | 1 | S11 and(micro adj mirror adj<br>array or MMA)                  | US_PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/11<br>12:58 |
| S28 | 1 | S27 and reflective adj device                                  | US_PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/11<br>12:59 |
| S29 | 1 | S28 and(generates or obtaining)<br>same optically adj variable | US_PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/11<br>12:59 |
| S30 | 1 | S29 and (encod\$4 or encode)<br>same latent adj image\$1       | US_PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/11<br>12:59 |
| S31 | 1 | S12 and(micro adj mirror adj<br>array or MMA)                  | US_PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/11<br>13:00 |
| S32 | 1 | S31 and reflective adj device                                  | US_PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/11<br>13:00 |
| S33 | 1 | S32 and(generates or obtaining)<br>same optically adj variable | US_PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/11<br>13:00 |
| S34 | 1 | S33 and(encod\$4 or encode)<br>same latent adj image\$1        | US_PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/11<br>13:01 |

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|-----|------|--|---|----|----|---------------------|
| S35 | 3432 | 382/100,232.ccls.  | USPAT   | OR | ON | 2009/01/11<br>13:02 |
| S36 | 3635 | 324/751,765.ccls.  | USPAT   | OR | ON | 2009/01/11<br>13:02 |
| S37 | 4028 | 250/310,307,311,306.ccls.  | USPAT   | OR | ON | 2009/01/11<br>13:03 |
| S38 | 2355 | 348/760,E9.027,781.ccls.   | USPAT   | OR | ON | 2009/01/11<br>13:03 |
| S39 | 157  | 396/335.ccls.  | USPAT   | OR | ON | 2009/01/11<br>13:03 |
| S40 | 254  | 359/2.ccls.  | USPAT   | OR | ON | 2009/01/11<br>13:04 |
| S41 | 5624 | 430/270.1,315,329.ccls.  | USPAT   | OR | ON | 2009/01/11<br>13:04 |
| S42 | 424  | 358/527.ccls.  | USPAT   | OR | ON | 2009/01/11<br>13:05 |
| S43 | 2271 | 526/262,264,281.ccls.  | USPAT   | OR | ON | 2009/01/11<br>13:05 |
| S44 | 1    | S35 and(micro adj mirror adj array or MMA)   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/11<br>13:07 |
| S45 | 0    | S18 and(@ad<"20030707" or<br>@rlad<"20030707" or<br>@prad<"20030707" or<br>@ptad<"20030707") | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/11<br>13:16 |
| S46 | 0    | S15 and(@ad<"20030707" or<br>@rlad<"20030707" or<br>@prad<"20030707" or<br>@ptad<"20030707") | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/11<br>13:18 |
| S47 | 5    | S19 and(@ad<"20030707" or<br>@rlad<"20030707" or<br>@prad<"20030707" or<br>@ptad<"20030707") | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/11<br>13:20 |
| S48 | 0    | S23 and(@ad<"20030707" or<br>@rlad<"20030707" or<br>@prad<"20030707" or<br>@ptad<"20030707") | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/11<br>13:20 |
| S49 | 0    | S31 and(@ad<"20030707" or<br>@rlad<"20030707" or<br>@prad<"20030707" or<br>@ptad<"20030707") | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/11<br>13:21 |
| S50 | 3    | S19 and @ad<"20030707"   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/11<br>13:21 |

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|-----|----|---|---|----|----|---------------------|
| S51 | 3  | S50 and(micro adj mirror adj array or MMA)                  | US_PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/11<br>13:22 |
| S52 | 0  | S51 and reflective adj device                               | US_PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/11<br>13:22 |
| S53 | 0  | S51 and(generates or obtaining) same optically adj variable | US_PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/11<br>13:22 |
| S54 | 0  | S51 and(encod\$4 or encode) same latent adj image\$1        | US_PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/11<br>13:23 |
| S55 | 0  | S51 and(encod\$4 or encode) and latent adj image\$1         | US_PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/11<br>13:23 |
| S56 | 1  | S35 and(micro adj mirror adj array or MMA)                  | USPAT   | OR | ON | 2009/01/11<br>13:28 |
| S57 | 0  | S56 and reflective adj device                               | USPAT   | OR | ON | 2009/01/11<br>13:28 |
| S58 | 0  | S56 and(generates or obtaining) same optically adj variable | USPAT   | OR | ON | 2009/01/11<br>13:29 |
| S59 | 0  | S56 and(generates or obtaining) and optically adj variable  | USPAT   | OR | ON | 2009/01/11<br>13:29 |
| S60 | 0  | S56 and(encod\$4 or encode) same latent adj image\$1        | USPAT   | OR | ON | 2009/01/11<br>13:29 |
| S61 | 0  | S56 and(encod\$4 or encode) and latent adj image\$1         | USPAT   | OR | ON | 2009/01/11<br>13:30 |
| S62 | 0  | S36 and(micro adj mirror adj array or MMA)                  | USPAT   | OR | ON | 2009/01/11<br>13:30 |
| S63 | 0  | S36 and reflective adj device                               | USPAT   | OR | ON | 2009/01/11<br>13:30 |
| S64 | 1  | S37 and(micro adj mirror adj array or MMA)                  | USPAT   | OR | ON | 2009/01/11<br>13:31 |
| S65 | 0  | S64 and reflective adj device                               | USPAT   | OR | ON | 2009/01/11<br>13:31 |
| S66 | 0  | S64 and(generates or obtaining) same optically adj variable | USPAT   | OR | ON | 2009/01/11<br>13:31 |
| S67 | 0  | S64 and(generates or obtaining) and optically adj variable  | USPAT   | OR | ON | 2009/01/11<br>13:31 |
| S68 | 18 | S38 and(micro adj mirror adj array or MMA)                  | USPAT   | OR | ON | 2009/01/11<br>13:32 |

|     |   |   |       |    |    |                  |
|-----|---|---|-------|----|----|------------------|
| S69 | 2 | S68 and reflective adj device   | USPAT | OR | ON | 2009/01/11 13:32 |
| S70 | 0 | S69 and(generates or obtaining) and optically adj variable                          | USPAT | OR | ON | 2009/01/11 13:33 |
| S71 | 0 | S69 and(encod\$4 or encode) and latent adj image\$1                                 | USPAT | OR | ON | 2009/01/11 13:33 |
| S72 | 1 | S69 and(@ad<"20030707" or @rlad<"20030707" or @prad<"20030707" or @ptad<"20030707") | USPAT | OR | ON | 2009/01/11 13:38 |
| S73 | 0 | S39 and(micro adj mirror adj array or MMA)  | USPAT | OR | ON | 2009/01/11 13:40 |
| S74 | 0 | S72 and(generates or obtaining) and optically adj variable                          | USPAT | OR | ON | 2009/01/11 13:40 |
| S75 | 0 | S74 and reflective adj device   | USPAT | OR | ON | 2009/01/11 13:40 |
| S76 | 0 | S72 and(encod\$4 or encode) and latent adj image\$1                                 | USPAT | OR | ON | 2009/01/11 13:41 |
| S77 | 7 | S40 and(micro adj mirror adj array or MMA)  | USPAT | OR | ON | 2009/01/11 13:41 |
| S78 | 1 | S77 and(generates or obtaining) and optically adj variable                          | USPAT | OR | ON | 2009/01/11 13:43 |
| S79 | 0 | S78 and reflective adj device   | USPAT | OR | ON | 2009/01/11 13:43 |
| S80 | 0 | S78 and(encod\$4 or encode) and latent adj image\$1                                 | USPAT | OR | ON | 2009/01/11 13:43 |
| S81 | 0 | S78 and(encod\$4 or encode)   | USPAT | OR | ON | 2009/01/11 13:47 |
| S82 | 1 | S78 and pattern   | USPAT | OR | ON | 2009/01/11 13:47 |
| S83 | 0 | S78 and primary adj pattern   | USPAT | OR | ON | 2009/01/11 13:47 |
| S84 | 0 | S78 and secondary adj pattern   | USPAT | OR | ON | 2009/01/11 13:48 |
| S85 | 0 | S82 and latent adj image\$1   | USPAT | OR | ON | 2009/01/11 13:49 |
| S86 | 1 | S82 and angle   | USPAT | OR | ON | 2009/01/11 13:49 |
| S87 | 1 | S86 and image\$1  | USPAT | OR | ON | 2009/01/11 13:50 |
| S88 | 0 | S87 and(registrat\$3 or alignment)and pattern                                       | USPAT | OR | ON | 2009/01/11 13:51 |
| S89 | 0 | S87 and(registrat\$3 or alignm \$3)and pattern                                      | USPAT | OR | ON | 2009/01/11 13:51 |
| S90 | 1 | S87 and light adj source  | USPAT | OR | ON | 2009/01/11 13:52 |
| S91 | 0 | S90 and photomask   | USPAT | OR | ON | 2009/01/11 13:53 |

|      |    |  |   |    |    |                  |
|------|----|--|---|----|----|------------------|
| S92  | 1  | S90 and lithography  | USPAT                                       | OR | ON | 2009/01/11 13:54 |
| S93  | 1  | S92 and (wet or dry) and etching   | USPAT                                       | OR | ON | 2009/01/11 13:55 |
| S94  | 0  | S93 and optical adj contact  | USPAT                                       | OR | ON | 2009/01/11 14:00 |
| S95  | 0  | S94 and project\$3 adj system  | USPAT                                       | OR | ON | 2009/01/11 14:00 |
| S96  | 0  | S93 and embossing adj die  | USPAT                                       | OR | ON | 2009/01/11 14:02 |
| S97  | 1  | S93 and electroplating   | USPAT                                       | OR | ON | 2009/01/11 14:03 |
| S98  | 1  | S97 and(micro adj mirror adj array or MMA)   | USPAT                                       | OR | ON | 2009/01/11 14:03 |
| S99  | 1  | S98 and pixellated   | USPAT                                       | OR | ON | 2009/01/11 14:04 |
| S100 | 1  | S99 and diffract\$3  | USPAT                                       | OR | ON | 2009/01/11 14:04 |
| S101 | 1  | S100 and grating   | USPAT                                       | OR | ON | 2009/01/11 14:05 |
| S102 | 0  | S101 and(track-line or track adj line)   | USPAT                                       | OR | ON | 2009/01/11 14:06 |
| S103 | 0  | S101 and regular adj array   | USPAT                                       | OR | ON | 2009/01/11 14:06 |
| S104 | 0  | S101 and rectangular adj array   | USPAT                                       | OR | ON | 2009/01/11 14:07 |
| S105 | 0  | S101 and rectangular adj array   | USPAT                                       | OR | ON | 2009/01/11 14:07 |
| S106 | 0  | S101 and horizontal  | USPAT                                       | OR | ON | 2009/01/11 14:07 |
| S107 | 0  | S101 and vertical  | USPAT                                       | OR | ON | 2009/01/11 14:07 |
| S108 | 0  | S101 and sam   | USPAT                                       | OR | ON | 2009/01/11 14:11 |
| S109 | 0  | S101 and phasegram   | USPAT                                       | OR | ON | 2009/01/11 14:12 |
| S110 | 0  | S101 and tonogram  | USPAT                                       | OR | ON | 2009/01/11 14:12 |
| S111 | 0  | S101 and binagram  | USPAT                                       | OR | ON | 2009/01/11 14:12 |
| S112 | 25 | S2 and(@ad<"20030707" or @rlad<"20030707" or @prad<"20030707" or @ptad<"20030707") | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/01/11 14:13 |
| S113 | 16 | S2 and @ad<"20030707"  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/01/11 14:13 |

|      |   |  |   |    |    |                     |
|------|---|--|---|----|----|---------------------|
| S114 | 0 | S113 and (encod\$4 or encode) same latent adj image\$1       | US_PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/11<br>14:14 |
| S115 | 0 | S113 and (encod\$4 or encode) and latent adj image\$1        | US_PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/11<br>14:14 |
| S116 | 4 | S113 and (encod\$4 or encode) and image\$1                   | US_PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/11<br>14:14 |
| S117 | 0 | S116 and(generates or obtaining) and optically adj variable  | US_PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/11<br>14:16 |
| S118 | 0 | S116 and photomask   | US_PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/11<br>14:18 |
| S119 | 0 | S116 and lithography   | US_PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/11<br>14:19 |
| S120 | 0 | S116 and(generates or obtaining) same optically adj variable | US_PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/11<br>14:19 |
| S121 | 0 | S116 and(generates or obtaining) and optically adj variable  | US_PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/11<br>14:19 |
| S122 | 0 | S116 and(registrat\$3 or alignm \$3)and pattern              | US_PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/11<br>14:20 |
| S123 | 0 | S116 and photomask   | USPAT   | OR | ON | 2009/01/11<br>14:21 |
| S124 | 0 | S116 and lithography   | USPAT   | OR | ON | 2009/01/11<br>14:21 |
| S125 | 0 | S116 and (wet or dry) and etching                            | USPAT   | OR | ON | 2009/01/11<br>14:22 |
| S126 | 0 | S116 and optical adj contact                                 | USPAT   | OR | ON | 2009/01/11<br>14:22 |

|      |   |   |   |    |    |                     |
|------|---|---|---|----|----|---------------------|
| S127 | 1 | S116 and project\$3 adj system  | USPAT   | OR | ON | 2009/01/11<br>14:23 |
| S128 | 0 | S127 and embossing adj die  | USPAT   | OR | ON | 2009/01/11<br>14:23 |
| S129 | 0 | S127 and electroplating   | USPAT   | OR | ON | 2009/01/11<br>14:24 |
| S130 | 0 | S127 and pixellated   | USPAT   | OR | ON | 2009/01/11<br>14:24 |
| S131 | 1 | S127 and diffract\$3  | USPAT   | OR | ON | 2009/01/11<br>14:25 |
| S132 | 0 | S127 and grating  | USPAT   | OR | ON | 2009/01/11<br>14:26 |
| S133 | 0 | S101 and(track-line or track adj line)  | USPAT   | OR | ON | 2009/01/11<br>14:26 |
| S134 | 0 | S111 and regular adj array  | USPAT   | OR | ON | 2009/01/11<br>14:27 |
| S135 | 0 | S131 and grating  | USPAT   | OR | ON | 2009/01/11<br>14:27 |
| S136 | 0 | S131 and rectangular adj array  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/11<br>14:29 |
| S137 | 0 | ((micro adj mirror adj array or MMA) and reflective adj device and(encod\$4 or encode) and latent adj image\$1 and(registrat \$3 or align\$4)adj pattern and reflection and observation adj angle and light adj source). CLM.   | US-PGPUB  | OR | ON | 2009/01/11<br>14:41 |
| S138 | 0 | ((micro adj mirror adj array or MMA) and reflective adj device and(encod\$4 or encode) and latent adj image\$1 and(registrat \$3 or align\$4)adj pattern and primary adj pattern and secondary adj pattern and reflection and observation adj angle and light adj source). CLM. | US-PGPUB  | OR | ON | 2009/01/11<br>14:43 |
| S139 | 1 | ((micro adj mirror adj array or MMA) and reflective adj device and(encod\$4 or encode) and latent adj image\$1).CLM.  | US-PGPUB  | OR | ON | 2009/01/11<br>14:43 |

|      |     |  |   |    |     |                  |
|------|-----|--|---|----|-----|------------------|
| S140 | 129 | (((("6373965") or ("2005123134") or ("6859534") or ("2005053234") or ("2005052017") or ("2004264737") or ("2003012374") or ("5735547") or ("2003030271") or ("5788285") or ("5722693") or ("5454598") or ("5271645") or ("20050184504") or ("5035929") or ("5428479") or ("4143967") or ("4632430") or ("4684593") or ("4668597") or ("6104812") or ("4586711") or ("6252971") or ("20040036272") or ("5374976") or ("5396559") or ("5999280") or ("6249588") or ("6494491") or ("5536045") or ("5772249") or ("5301981") or ("6324009") or ("6000332") or ("5178418") or ("4897802") or ("6286873") or ("6088161") or ("5825547") or ("6414757") or ("5437897") or ("6542629") or ("20020106102") or ("20020102007") or ("6198545") or ("6014500") or ("5734752") or ("5784200") or ("5403040") or ("20020041712") or ("5708717") or ("4914700") or ("20040188528") or ("20030228014") or ("2004001611") or ("2002136429") or ("5790703).pn."). | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/01/11 15:04 |
| S141 | 0   | S140 and(micro adj mirror adj array or MMA)  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2009/01/11 15:05 |
| S142 | 0   | S140 and reflective adj device   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2009/01/11 15:05 |
| S143 | 117 | S140 and(@ad<"20030707" or @rlad<"20030707" or @prad<"20030707" or @ptad<"20030707")   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2009/01/11 15:06 |

|      |    |  |   |    |    |                     |
|------|----|--|---|----|----|---------------------|
| S144 | 0  | S143 and(encod\$4 or encode) and latent adj image\$1 and (registrat\$3 or align\$4)adj pattern and reflection and observation adj angle and light adj source | US_PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/11<br>15:08 |
| S145 | 30 | S143 and(encod\$4 or encode)   | US_PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/11<br>15:08 |
| S146 | 10 | S145 and(registrat\$3 or alignm \$3)and pattern  | US_PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/11<br>15:09 |
| S147 | 0  | S146 and(generates or obtaining)and optically adj variable   | US_PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/11<br>15:09 |
| S148 | 0  | S146 and(generat\$4 or obtaining)and optically adj variable  | US_PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/11<br>15:10 |
| S149 | 9  | S146 and @ad< "20030707"   | US_PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/11<br>15:10 |
| S150 | 4  | S116 and @ad< "20030707"   | US_PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/11<br>15:19 |

1/16/09 4:23:32 PM

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